

# **A Structure For Anti-sliding Floor**

## **BACKGROUND OF THE INVENTION**

### **1. Field of the Invention**

The present invention generally relates to a structure for anti-sliding floor, which is ready for the locations easily wetted by liquid causing falling down as rest room, swimming pool, etc.

### **2. Description of the Prior Art**

Referring to Fig. 1, which is a 3-D explored view of an anti-sliding floor in prior arts. A bottom plate 10 with X-shape seams and a plurality of footrests 12 constructs the anti-sliding floor. It features that a top surface of the bottom plate 10 has a plurality of infixing nodes 102 corresponding to several n-shape slots 120 on bottom surfaces of the plural footrests 12.

As given by Fig. 1, the infixing nodes 102 lodging in the n-shape slots 120 is to compose the anti-sliding floor in prior arts. However, it causes a deflection phenomenon very easily by way of the footrest 12 being made of wood or plastic material, and therefore the footrest 12 is naturally with flexibility to derive the condition of indentation on a central axis and bulging on two sides. After further, a line of the infixing nodes 102 still be inset in corresponding footrest 12 will develop an obvious deflection phenomenon.

To put the anti-sliding floor on a wet location may cause a surface without smooth because of the deflection phenomenon, and cannot provide a better feeling to walk; further that, it is possible to make happen falling down of pedestrians. Hence, how to improve a new object to be instead of the prior art is an issue within the field.

## **SUMMARY OF THE INVENTION**

The main objective of the present invention is to offer a structure for anti-sliding floor for providing a comfortable and safer anti-sliding floor.

To approach above objective, the present invention supplies the structure for anti-sliding floor comprising: a bottom plate having a plurality of buckling nodes arranged in lines with equal intervals on a top surface thereof; a plurality of footrests having two slots on two sides thereof, each slot being arranged to fasten with a corresponding line of buckling nodes for the footrests closely combining with the bottom plate.

Other and further features, advantages and benefits of the invention will become apparent

in the following description taken in conjunction with the following drawings. It is to be understood that the foregoing general description and following detailed description are exemplary and explanatory but are not to be restrictive of the invention. The accompanying drawings are incorporated in and constitute a part of this application and, together with the description, serve to explain the principles of the invention in general terms. Like numerals refer to like parts throughout the disclosure.

### **BRIEF DESCRIPTION OF THE DRAWINGS**

The objects, spirits and advantages of the preferred embodiments of the present invention will be readily understood by the accompanying drawings and detailed descriptions, wherein:

Fig. 1 is a 3-D explored view of an anti-sliding floor in prior arts.

Fig. 2A is a 3-D explored view of a first preferred embodiment of the present invention.

Fig. 2B is an external view of an assembled structure of the first preferred embodiment of the present invention.

Fig. 2C is a sectional view of the first preferred embodiment of the present invention.

Fig. 3 is a sectional view of a second preferred embodiment of the present invention.

Fig. 4 is a 3-D explored view of a third preferred embodiment of the present invention.

### **DETAILED DESCRIPTION OF THE INVENTION**

Referring to Fig. 2A and 2B, which are a 3-D explored view of a first preferred embodiment of the present invention and an external view of an assembled structure of the first preferred embodiment of the present invention. As it can be seen, the present invention comprises: a bottom plate 20 having a plurality of buckling nodes 202 arranged in lines with equal intervals on a top surface thereof, the bottom plate 20 being made of plastic material; a plurality of drain holes; and a plurality of footrests 22 having two slots 220 on two sides thereof, the footrest 22 being made of plastic wood.

Referring to Fig. 2C, which is a sectional view of the first preferred embodiment of the present invention. Obviously, each slot 220 fastens with a corresponding line of buckling nodes 202 for the footrests 22 closely combining with a top surface of the bottom plate. Upon the

structure, the two sides of each footrest 22 are accepted two balanced forces toward down, the footrest 22 being then flatted without deflection phenomenon. A top end of the buckling node 202 is figured as a rectangular block 202a, which tightly fastening with the slot 220 for approaching the best function.

Referring to Fig. 3, which is a sectional view of a second preferred embodiment of the present invention. The difference between the first and the second embodiments is that a buckling node 302 of the second embodiment being shaped as a mushroom, but the buckling node 202 being as aforesaid, a rectangular block. Although the two types of buckling nodes are different, both can reach the objective of the present invention. The most important is the fastening effects of the buckling nodes 202 with the slots 220 and the buckling nodes 302 with the slots 320 and the closing status of the footrests 22 with the bottom plate 20 and the footrests 32 with a bottom plate 30.

Referring to Fig. 4, which is a 3-D explored view of a third preferred embodiment of the present invention. A bottom plate 40 further has a plurality of lines of holes 400 of equal intervals. The hole 400 provides to be through by a plurality of inserting objects 44, such as screws, nails, etc., and continuously the inserting objects 44 being inserted and fixed into the footrests 42 for the footrests 42 closely tightening on a top surface of the bottom plate 40. The top surface has a central axial slot 421 for the inserting objects 44 easier penetrating and fixing into the footrests 42. The footrests 22 and 32 in Fig. 2A, 2B, 2C and 3 can provide a central axial slot individually as the central axial slot 421 as well.

Although this invention has been disclosed and illustrated with reference to particular embodiments, the principles involved are susceptible for use in numerous other embodiments that will be apparent to persons skilled in the art. This invention is, therefore, to be limited only as indicated by the scope of the appended claims.